

Docket No. 217075US2PCT

DT16 Rec'd PCT/PTO 06 MAY 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Joseph T. VERDEYEN, et al.

SERIAL NO: 10/031,570

GAU: 1765

FILED: January 22, 2002

EXAMINER:

FOR: ELECTRON DENSITY MEASUREMENT AND PLASMA PROCESS CONTROL SYSTEM USING CHANGING
IN THE RESONANT FREQUENCY OF AN OPEN RESONATOR CONTAINING THE PLASMA



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TC 1700

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT P.C.

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Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
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10/031,570

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2,405,229	8-6-1946	MUELLER et al.			
	AB	2,483,189	9-27-1949	C. C. EAGLESFIELD			
	AC	2,735,941	2-21-1956	R. C. PECK			
	AD	2,971,153	2-7-1961	WHARTON et al.			
	AE	3,265,967	8-9-1966	M. A. HEALD			
	AF	3,290,614	12-6-1966	J. E. RACY			
	AG	3,383,509	5-14-1968	GOLDSTEIN et al.			
	AH	3,388,327	6-11-1968	SUTTON et al.			
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					YES	NO
	AO	0 432 573	6-19-1991	EUROPE		
	AP	WO 01/06544	1-25-2001	WIPO		
	AQ	WO 01/37306	5-25-2001	WIPO		
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	AW	P. K. Atrey et al., "Measurement of chord averaged electron density in ADITYA using 100 GHz and 136 GHz interferometers", Indian J. Physics 66B (5 & 6), 1992, pp. 489-97.				
	AX	D. Bora et al., "Plasma density measurement using a simple microwave technique", Rev. Sci. Instrum. 59 (10), 10/1988, pp. 2149-51.				
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	AZ	Nils Brenning, "An improved microwave interferometer technique for plasma density measurements: II", J. Phys. E: Sci. Instrum. 21, 1988, pp. 578-82.				<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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LIST OF REFERENCES CITED BY APPLICANT <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; transform: rotate(-45deg);"> OIPE JC139 MAY 06 2003 PATENT & TRADEMARK OFFICE </div>				APPLICANT Joseph T. VERDEYEN, et al.		RECEIVED MAY 07 2003 TC 1700	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	3,699,475	10-17-1972	R. G. ROGERS			
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	AC	3,956,695	5-11-1976	M. E. STAMM			
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	AX	M. A. G. Calderon et al., "Experimental study of a swept reflectometer with a single antenna for plasma density profile measurement", International Journal of Infrared and Millimeter Waves 6 (7), 1985, pp. 605-28.					
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	AW	J. A. Fessey et al., "Plasma electron density measurements from the JET 2 mm wave interferometer", J. Phys. E: Sci. Instrum. 20, 1987, pp. 169-74.	
	AX	H. Kumar et al., "Measurements of plasma density in argon discharge by Langmuir probe & microwave interferometer", Indian Journal of Pure & Applied Physics 17, 05/1979, pp. 316-8.	
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AAE	G. R. Hanson et al., "Density fluctuation measurements in ATF using correlation reflectometry", Nuclear Fusion 32 (9), 1992, pp. 1593-608.		
AAF	G. R. Hanson et al., "A swept two-frequency microwave reflectometer for edge density profile measurements on TFTR", Rev. Sci. Instrum. 63 (10), 10/1992, pp. 4658-60.		
AAG	K. W. Kim et al., "Development of a fast solid-state high-resolution density profile reflectometer system on the DIII-D tokamak", Rev. Sci. Instrum. 68 (1), 01/1997, pp. 466-9.		
AAH	P. Millot et al., "An advanced radar technique for electron density measurements on large tokamaks", Eighteenth International Conference on Infrared and Millimeter Waves, James R. Birch, Terence J. Parker, Editors, Proc. SPIE 2104, 1993, pp. 240-1.		
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AAM	S. Shammass et al., "Simplified microwave measurement of uv photoplasmas", J. Appl. Phys. 51 (4), 04/1980, pp. 1970-4.		
AAN	A. C. C. Sips et al., "Analysis of reflectometry density profile measurements in JET", Plasma Phys. Control. Fusion 35, 1993, pp. 743-55.		
AAO	W. Hess et al., "A new 17...23 GHz cavity stabilized, hermetically sealed module VCO in chip technique", Conference proceedings of the 22nd European Microwave Conference, vol. 1, August 24-27, 1992, pp. 143-8. INSPEC abstract number B9211-1350H-047.		
AAP	H. Flugel et al., "Cavity stabilisation techniques for harmonic-mode oscillators", Proceedings of the eighth colloquium on microwave communication, August 25-29, 1986, pp. 393-4. INSPEC abstract number B88050407.		
AAQ	Helmut Barth, "A high Q cavity stabilized Gunn oscillator at 94 GHz", 1986 IEEE MTT-S International Microwave Symposium Digest, June 2-4, 1986, pp. 179-82. INSPEC abstract number B87006105.		
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	AAA	P. M. Marshall et al., "Simple technique cavity-stabilizes VCO", Microwaves & RF 24 (7), 07/1985, pp. 89-92. INSPEC abstract number B86014481.					
	AAB	M. E. Znojkwicz, "8 GHz low noise bias tuned VCO", 1984 IEEE MTT-S International Microwave Symposium Digest, May 29-June 1, 1984, pp. 489-91. INSPEC abstract number B85017875.					
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	AAD	Brian E. Rose, "10 GHz cavity stabilized FET oscillator", Proceedings of the 32nd Annual Frequency Control Symposium, May 31-June 2, 1978, pp. 385-8. INSPEC abstract number B79030122.					
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	AAF	Brian Owen, "Mechanically tuneable, cavity-stabilized millimeter-wave IMPATT oscillators", 1977 IEEE MTT-S International Microwave Symposium Digest, 1977, pp. 22-5. INSPEC abstract number B78005511.					
	AAG	Walter R. Day, "Frequency modulation of cavity stabilized solid state diode oscillators", 1973 IEEE-G-MTT International Microwave Symposium Digest of Technical Papers, June 4-6, 1973, pp. 247-9. INSPEC abstract number B74005473.					
	AAH	J. Clarke, "A simple stabilized microwave source", IEEE Transactions on Instrument and Measurement, Vol. IM-21 (1), 02/1972, pp. 83-4. INSPEC abstract number B72013995.					
	AAI	David I. C. Pearson et al., "A microwave interferometer for density measurement and stabilization in process plasmas", Materials Research Society Symposium Proceedings 117, April 5-7, 1988, pp. 311-7.					
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	AAL	Kai Chang, "Millimeter-wave spatial and quasi-optical power combining techniques", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 431-4.					
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	AAO	Fu-Jiang Liao et al., "Developing status of millimeter wave tubes in China", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 443-6.					
	AAP	Li-Rong Jin et al., "D-band silicon IMPATT diode", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 447-9.					
	AAQ	Sheng-Min Liu et al., "The millimeter wave Gunn oscillator and self-oscillating mixer using the nonradiative dielectric waveguide", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 450-2.					
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	AAA	Wei Hong et al., "Study on broadband millimeter wave oscillators", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 453-6.					
	AAB	Dunfu Li et al., "Influence of moisture on cavity-stabilized oscillators", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 457-460.					
	AAC	D. Ni et al., "Millimeter-wave generation and characterization of a GaAs FET by optical mixing", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, page 493.					
	AAD	Jing-Feng Miao et al., "New NRD guide oscillator", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 494-496.					
	AAE	Yu-Fen Yang et al., "8mm pulse IMPATT oscillators", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 497-9.					
	AAF	Ning Chen et al., "Novel large signal mathematical model of mm-wave Gunn device", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 500-2.					
	AAG	Wang Dongjin et al., "VCO for millimeter-wave phase-locked sources", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 503-5.					
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AAA	Wanjun Bi et al., "Experimental study of an overmode power combiner of 8mm IMPATT diodes", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 610-3.
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